

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085234 A3

(51) International Patent Classification⁷: **B62K 27/00**

(21) International Application Number:
PCT/US2004/008614

(22) International Filing Date: 22 March 2004 (22.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/456,727 24 March 2003 (24.03.2003) US

(71) Applicant (for all designated States except US): ISOTEC,
INC. [US/US]; 2762 Garden Grove Blvd., Suite G, Garden
Grove, CA 92841 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GIESE, Curtis, Fred-
erick [US/US]; 17157 Buttonwood Street, Fountain Valley,
CA 92708 (US).

(74) Agent: BLANCHE, Bradley, D.; Paul, Hastings, Janof-
sky and Walker LLP, P.O. Box 919092, San Diego, CA
92191-9092 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

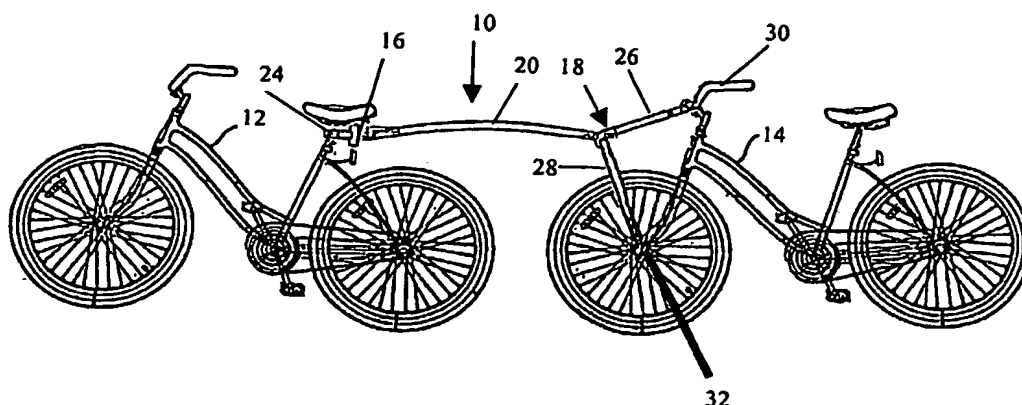
Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
30 June 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: BICYCLE TOWING DEVICE



(57) Abstract: A bicycle towing device for towing a trailing bicycle behind a leading bicycle including a leading bicycle connection interconnected to a trailing bicycle connection by a tow bar. The trailing bicycle connection is connectable to both upper and lower locations on the trailing bicycle such that the center of gravity of the force pulling the trailing bicycle is centered on the trailing bicycle to provide stable maneuverability of the trailing bicycle. The leading bicycle connection and the trailing bicycle connection include pivotal joints that allow limited degrees of rotational movement with respect to the tow bar. In this manner of attachment, the tow bar is pivotal with respect to both the leading bicycle connection and the trailing bicycle connection to account for differences in height between the bicycles while forcing the trailing bicycle to lean at substantially the same exact angle as the leading bicycle at all times.

WO 2004/085234 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08614

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B62K 27/00
US CL : 280/204, 292, 498; 224/427, 425

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 280/204, 292, 498; 224/427, 425

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,842,710 (COUTURE) 1 December 1998 (1.12.1998) see entire patent	1, 2, 8, 16, and 17
Y	US 5,641,173 (COBB, JR.) 24 June 1997 (24.6.1997) see entire patent	12-15, 18-21, and 25-31

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

18 April 2005 (18.04.2005)

Date of mailing of the international search report

27 APR 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Tony H. Winner

Telephone No. (703) 308-1113